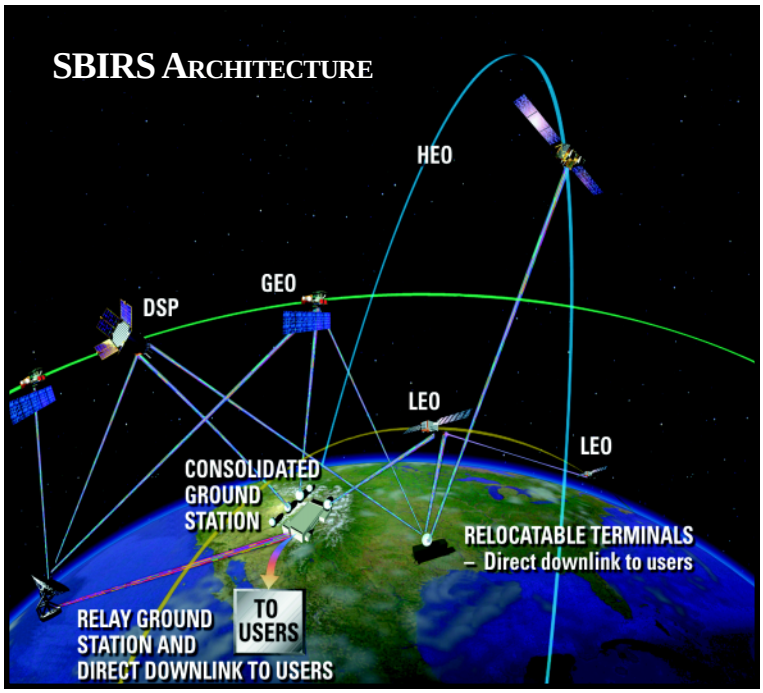

Using multiple orbit configurations, the SBIRS "System of Systems" architecture will satisfy all mission requirements.

-- The Solution --

The answer to the evolving threats and the four missions is the Space Based Infrared System (SBIRS) architecture. This new system, currently under development, is a "System of Systems" approach that will integrate space assets in multiple orbit configurations with a consolidated ground segment to provide more effective integration of data and better information to the warfighter. The goal is to provide a seamless transition from DSP to SBIRS and meet the jointly defined requirements of the entire defense community at an affordable price. This will be accomplished using streamlined acquisition processes and capitalizing on mature technologies.

The SBIRS architecture will consist of four satellites located in Geostationary Earth Orbit (GEO), two satellites orbiting in Highly Elliptical Orbits (HEO) and a constellation of greater than 20 satellites in Low Earth Orbit (LEO) to provide global coverage in support of the SBIRS missions.